L 13637-63			# #		eger di esti		
ACCESSION 1	NR: AP30031	23				4	
deep appre	ciation to A	. A. Abrikoso	ofor valual	ole comments	, and to I	. P. Gor'kov	
and 1. M.	Charachikov	for a useful d	liscussion.'	' Orig. art	. has: 13	formulas.	<b>*</b>
ASSOCIATION	V: Institut	fizicheskikh emy of Science	problem Ake	idemii nauk	SSSR (Inst	itute of	
	*14.						
SUBMITTED:	28Nov62	DATE ACQ: 2	23Jul63	ENCL:	00		
SUB CODE:	00	NO REF SOV:	005	OTHER:	003		
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Card 2/2							

KHAYKIN, M.S.; FAL¹KOVSKIY, L.A.; EDEL¹MAN, ♥.S.; MINA, R.T.

Properties of magnetic plasma waves in bismuth single crystals. Zhur. eksp. i teor. fiz. 45 no.6:1704-1716 D '63. (MIRA 17:2)

1. Institut fizicheskikh problem AN SSSR i Fizicheskiy institut Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy entergii SSSR, Yerevan.

ACCESSION NR: AP4037596

s/0056/64/046/005/1820/1822

AUTHOR: Fal'kovskiy, L. A.

TITLE: Propagation of magnetoplasma waves in a bismuth plate

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1820-1822

TOPIC TAGS: Maxwell equation, polarization, plasma wave reflection, cyclotron resonance phenomena, electromagnetic wave propagation

ABSTRACT: The field produced in a plate situated in a strong magnetic field by a plane wave incident on one of its surfaces is considered in analogy with the earlier calculations by the author (with M. S. Khaykin, V. S. Edel'man, and R. T. Mina, ZhETF v. 45, 12, 1963) for an infinite space. Taking into account the fact that the relation between the field and the current are the same in a plate as in an infinite space when the field frequency is much smaller than the cyclotron frequency, expressions are derived for the ampli-

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ACCESSION NR: AP4037596

tudes of the reflected by and transmitted through the plate. It is shown by solving the Maxwell equations in a specially selected coordinate frame that the incident wave produces in the plate two pairs of waves traveling in opposite directions and when resonance occurs, i.e., when a standing wave is produced in the plate the reflection coefficient differs noticeably from unity. In addition, the transmitted wave is linearly polarized if the field is parallel to the surface of the plate. "The author is grateful to A. A. Abrikosov, M. Ya. Azbel', M. S. Khaykin, and V. S. Edel'man, for discussions of the result." Orig. art. has: 2 formulas.

ASSOCIATION: Institut fizicheskikh problem Akademii nauk SSSR (Institute of Physics Problems, Academy of Sciences SSSR)

SUBMITTED: 27Nov63

DATE ACQ: 09Jun64

ENCL: 00

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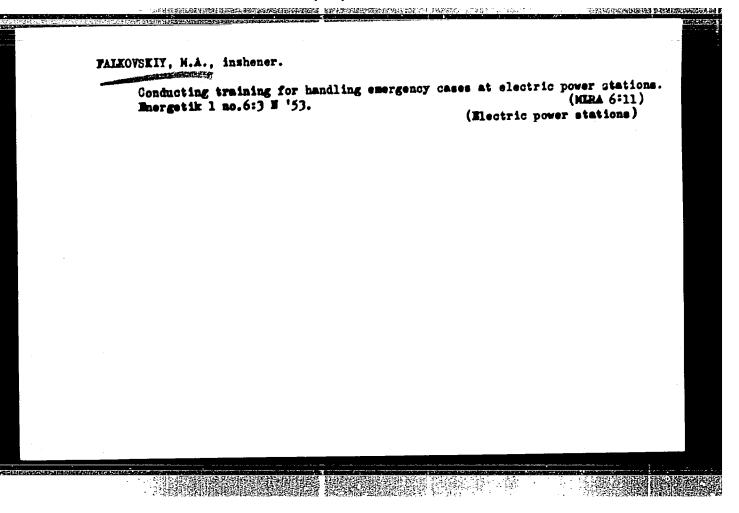
EWT(1)/EWT(m)/EFA(w)-2/EWP(t)/EWP(b)/EWA(m)-2/UR/0056/ L 1566-66 AP5019240 ACCESSION NR AUTHOR: Fal'kovskiy, L. A.; Razina, G. S. M. TITLE: Electrons and holes in bismuth A SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 1, 265-274 'crystal lattice TOPIC TAGS: bismuth, energy band structure, electron spectrum, structure, cyclotron resonance, magnetic susceptibility, electric conductivity ABSTRACT: This is a continuation of an earlier paper by the author (with A. A. Abrikosov, ZhETF v. 43, 1089, 1962), devoted to the energy spectrum of the electrons and holes in metals having a bismuth-type lattice. In the present paper a quantitative comparison is made with the theory of the earlier work and experimental data published in the same source on measurements of cyclotron resonance (V. S. Edel'man and M. S. Khaykin, ZhETF v. 49, 107, 1965; Accession Nr. AP5019222), data on oscillations of the magnetic susceptibility (N. B. Brandt et al., ZhETF v. 47, 1711, 1964, and earlier papers), and data on the conductivity (G. E. Smith et al., Phys. Rev. v. 135, All8, 1964; Ye. P. Vol'skiy, ZhETF v. 46, 2035, 1964). The parameters describing the spectra of the holes and electrons in the bismuth lattice, the arrangement of the bands of the carriers in the bismuth, and certain features of the Card 1/2

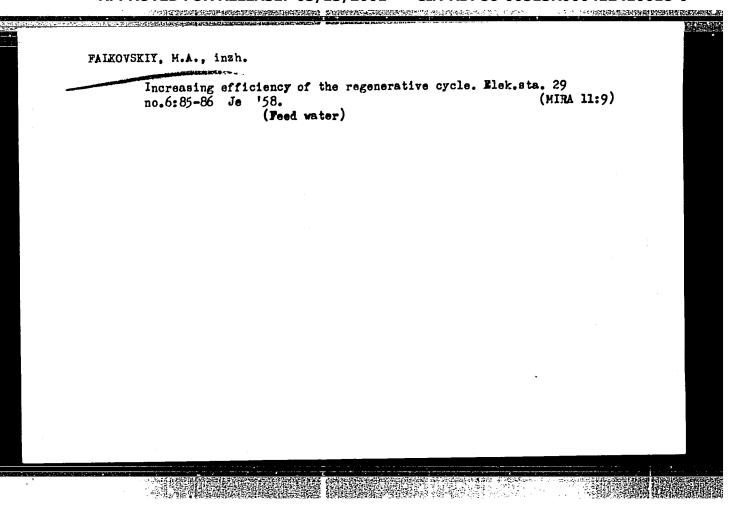
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puter and tabulated mental results as it is concluded to the G. Smistin for and A. P. Koroly A. Abrikosov for	e all obtained from the expeted. Reasons for disparitie re discussed, especially with that in general the agreement or help with the calculation with for presenting experiment a discussion of the work."	th respect to the effect is satisfactory.  No. F. Gantmakher;  data prior to publ	ical and experi- ictive mass, but The authors thank V. S. Edel man, 5- ication, and $\Lambda$ .	
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	ACCESSION NR: AP5021124  AUTHOR: Fal'kovskiy, L. A.  45  47  47  54	
	TITLE: Quasiclassical quantization of electrons and notes in bismuth in a magnetic field	
	2, 1965, 609-611	
	TOPIC TAGS: bismuth, line splitting, electron energy level, quantum resonance phenomenon, spin system	
	ABSTRACT: This is a continuation of earlier work by the author (ZhETF v. 44, 1935, 1963), where the equations for the energy spectrum were solved in the case of holes and for a particular direction of the magnetic field. In the present paper, the asymptotic behavior of the eigenvalues of a system of four differential equations is obtained to determine the splitting, in a magnetic field, of levels which are degenerate with respect to spin. The functions characterizing the spin splitting are evaluated separately for the case of electrons and	
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holes, and it is shown that in both cases the splitting is quil large and exceeds the splitting for a free electron by a factor to the mass ratio. The dependence of the spin splitting of the to the magnetic field is calculated using the parameters tion of the magnetic field is calculated using the parameters viously evaluated for the bismuth spectrum by the author (with Razina, ZhETF v. 49, no. 7, 1964). The author thanks L. M. Vor Razina, ZhETF v. 49, no. 7, 1964). The author thanks L. M. Vor Calculating the integrals, A. S. Kronrod for several remains A. A. Abrikosov for a discussion of the work. Orig. art. has 2 figures and 19 formulas.	pre- n G. S. pronina	
ASSOCIATION: None	S, GP	
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Card 2/2 MD		





GULYAYEV, M.A., kand.tekhn.nauk; FALKOVSKIY, M.A., inzh.

Enlargement and redesign of a fuel oil and gas operated mediumpressure electric power plant. Elek. sta. 32 no.11:20-23 N
(MIRA 14:11)
(Electric power plants)

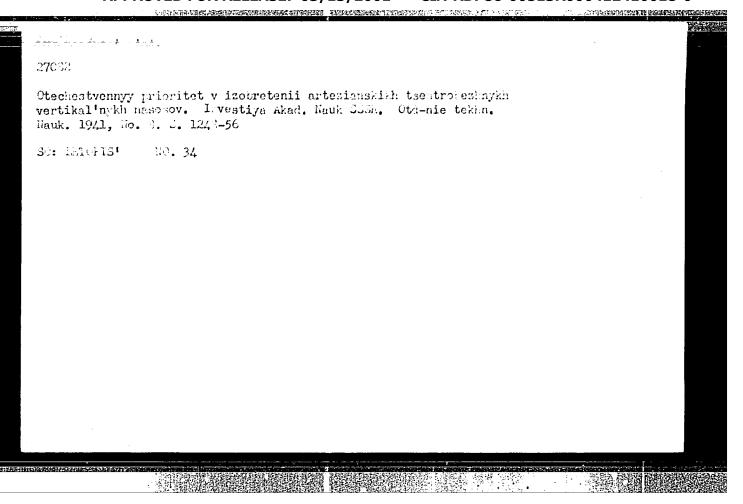
ABDULLAYEV, K.M., inzh.; FALKOVSKIY, M.A., inzh.

Experience in decronaing heat losses in scavenging water. Prom. energ. 19 no. 2:30-32 F '64. (MIRA 17:5)

INOGAMOV, A.A. (Tashkent); ZAKIROV, N.M. (Tashkent); FAL'KOVSKIY, N.I. (Tashkent)

Study of the effect of meteorological conditions on the discharge characteristics of air gaps. Izv. AN SSSR. Energ. i transp. no.1:106-108 Ja-F '64. (MIRA 17:4)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410018-0"



FAL'ROYSEIY, Nikolay Ivanovich.

The history of water supply in Russia. Moskva, Izd-vo kommunal'nogo khoziaistva RSFSR, 1947. 306 p. maps (50-55920)

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FAL!KOVJKIŤ,	Nikola Ivanovich.	
Water supply Ministerstva	and sanitary engineering in the Soviet Union. Moskva, Izd-vo kommunal'nogo khoziaistva RSFSR, 1948. 107 p., map. (49-12296)	
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Political and a finite companies of the companies of the

27082 FAL'KOVSKIY, N. I. Otechestvennyy proioritet v izobretenii artezianskikh tsentrobezhnykh vertikal'nykh nasosov. Izvestiya Akad. nauk SSSR, Otd-niye tekhn, nauk, 1949, No.8, s. 1248-56.

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

Commission on History & Technology, AS 1155R

FAL KOVSKIY, N. I.

Mery i izmeritel'nye pribory. Moskva, Komitet po delam mer i izmeritel'nykh pritorov pri SNK SSSR, 1949-1950. 8 v.

Measures and measuring instruments.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

FAL'KOVSKIY, N. I.

PA 162T1

USSR/Academy of Sciences - Inventor

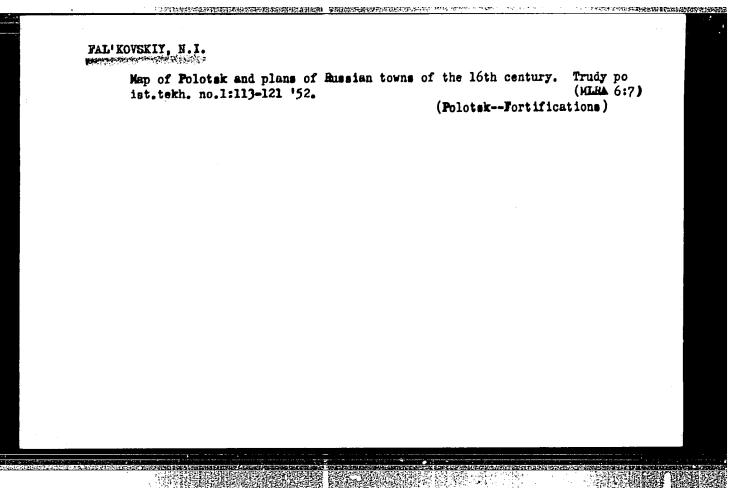
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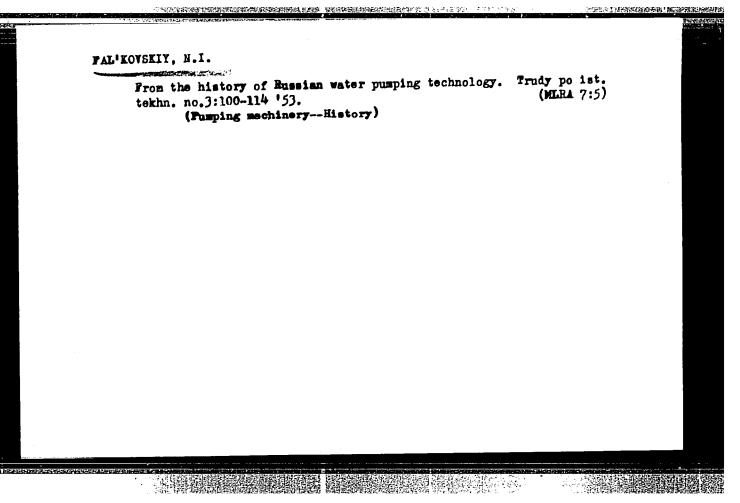
"I. F. Aleksandrovskiy's Problem of the 'Automotive' Mine," N. I. Fal'kovskiy, Commission on Hist of Tech Sci Dept of Tech Sci, Acad Sci USSR

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 7, pp 1095-1098

Aleksandrovskiy completed his project in 1865, i.e., 2 years earlier than Whitehead (1867). Even earlier, Russians had demonstrated underwater mines. Submitted 15 Sep 49 by Acad B. N. Yur'yev.

162T1





SHIKIN, S.S., kand.tekhn.nauk; NEPOMNYASHCHIY, V.A., inzh.; FAL'KOVSKIY, N.I., inzh.

Operation of grounding systems in salinated soils. Energ. i elektrotekh. prom. no.2:33-36 Ap-Je 165. (MIRA 18:8)

SHIKIN, S.S., kand. tekhn. nauk; NEPOMNYASHCHIY, V.A., Inzh.; FAL'KOVSKIY,
N.I., inzh.

Electrical properties of saline and alkaline soils. Energ.
i elektrotekh. prom. no.3:46-48 Jl-S '65. (MIRA 18:9)

MILYUTIN, Ye.R., assistent; FAL'KOVSKIY, O.I., aspirant; KHOLMOVSKAYA
O.K., assistent; FRADIN, A.Z., dots., otv. red.; GAL'CHINSKAYA,
V.V., tekhn. red.

[Manual for a course project on antennas] Rukovodstvo po kursoyomu proektirovaniiu antenn; uchebnoe posobie. Leningrad, Leningr. elektrotekhn. in-t sviazi im. M.A. Bonch-Bruevicha. Pt.1. 1963. 51 p. (MIRA 17:3)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410018-0"

PAD, TEMVSKOY, S. F.

Anymptotic determination of fields in a or blem on the diffraction of a plane electromagnetic wave on an ideally conducting sphere.

Trudy unbeb. inst. svinzi. no.16:3-16 163. (MIRA 17:10)

Study of expressions for a field in a semishedow region with diffrection of a plane electromagnetic wave on an ideally conducting others. Thid::17-26

1. Leningradskiy elektrotokhnicheskiy Institut svyazi im. prof. M.A.Bonch-Bruyevicha.

ACC NRi AR6033799

SOURCE CODE: UR/0058/66/000/007/H014/H014

AUTHOR: Fallkovskiy, O. I.

27

TITLE: Asymptotic presentation of electromagnetic field at arbitrary altitude of source and observation points over impedance sphere

SOURCE: Ref. zh. Fizika, Abs. 7Zh100

REF SOURCE: Tr. Nauchno-tekhn, konforentsii Leningr, elektrotekhn, in-ta svyazi, vyp. 1935, 167-177

TOPIC TAGS: electromagnetic field, umbra, penumbra, impedance sphere, electric dipole

ABSTRACT: A general asymptotic representation of the electromagnetic field of a "horizontal" electric dipole has been obtained. This presentation is correct for umbra and penumbra areas at any elevation of the source and observation point over a large-radius sphere (as compared to the length of the wave) with approximative impedance-type boundary conditions. It is shown that if the source is removed to infinity the formulas obtained become an asymptotic presentation of the solution of the problem of liffraction of a flat wave on a sphere. [Translation of abstract] SUB CODE: 20

Card 1/1 ml2

ACC NRi AR6035562

SOURCE CODE: UR/0044/66/000/009/B071/B071

AUTHOR: Fal'kovskiy, O. I.

TITLE: Asymptotic form of an electromagnetic field at an arbitrary altitude of the

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source and observation point over the impedance sphere

SOURCE: Ref. zh. Matematika, Abs. 9B367

REF SOURCE: Tr. Nauchno-tekhn. konferentsii Leningr. elektrotekhn. in-ta

svyazi, vyp. 2, 1965, 167-177

TOPIC TAGS: electromagnetic field, asymptotic method, impedance sphere

ABSTRACT: A general asymptotic form is obtained for an electromagnetic field of a "horizontal" electric dipole, valid for shadow and semishadow zones of any altitude of source and observation point over a sphere with a large radius (as compared to its wavelength) and with impedance-type boundary conditions. It is shown that by extending the source to infinity, the equations obtained become an asymptotic form for solving the problem of the diffraction of a plane wave in a sphere. [Translation of abstract]

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FAL!KOVSKIY, S.V., inzh.; ZAKHAROV, Ye.S., inzh.; VIGAK, V.M., inzh.; YASKILKO, N.B., inzh.; BULYGIN, Yu.G., inzh.; PASICHNIK, I.I., inzh.

THE REPORT OF THE PERSON OF TH

Using strain gauges for a full scale investigation of the steam pipes of the 200 Mw unit. Teploenergetika 9 no.1:32-36 Ja '62. (MIRA 14:12)

1. Yuzhnoye otdeleniye Gosude stvennogo tresta po organizatsii i ratsionalizatsii elektrostantsiy.

(Steam pipes—Testing)
(Boilers)

ZAKHAROV, Yo.S.; FALIKOVSKIY, S.V.; VIGANK, V.M.; HATNER, A.V., kana. tokan. mauk, red.

[Experience in the installation and adjustment of steampipes in blocks with 150 and 200 Mw. ratings] Iz opyta mentarha i naladki paroprovodov blokov moshchnost'iu 150 i 200 Mvi. Moskva, Biuro tekhn. informatsii, 1964. 36 p. (MIRA 18:5)

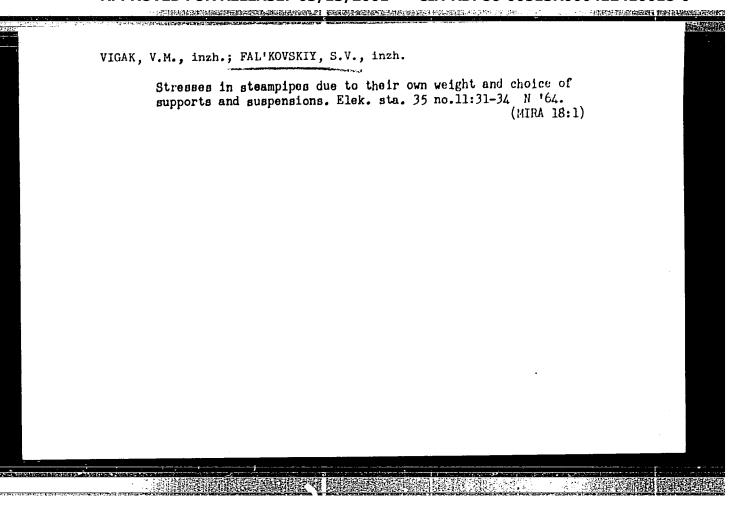
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VIGAK, V.M., inzh.; FAL'KOVSKIY, S.V., inzh.

Determination of actual stresses in the steam lines of a 200 Mw. block. Teploenergetika 11 no. 1:22-27 Ja 64. (MIRA 17:5)

1. Yuzhnoye otdeleniye Gosudarstvennogo tresta pe organizatsii i ratsionalizatsii ravonnykh elektrostantsiy i setey.

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ENT(m)/ENP(b)/ENA(d)/ENP(t) MJM/JD

ACCESSION NR: AR5003993 s/0277/64/000/010/0021/0021

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin, Gidroprivod. Otd. vyp., Abs. 10.48.128

Smirnov, F. F.; Fal'kovskiv, V. A.; Barinov, V. P. AUTHOR:

their designations and industrial TITLE: New brands of hard alloys, properties

CITED SOURCE: Sb. tr. Vses. n.-1. in-t tverdykh splavov, no. 5, 1964, 5-13

TOPIC TAGS: metal ceramic material, metal physical property, metal mechanical property/ TS metal ceramic, GOST 3882-61, GOST 3882-53

TRANSLATION: Fields of application, designations, and industrial and physico-mechanical properties are described for the TS metalloceramic hard alloys coming under GOST-3882-61, which went into effect July 1, 1962. Reasons are given for the elimination of certain TS brands specified under GOST-3882-53, and new improved TS

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ACCESSION NR: AR5003993

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brands are introduced. Data are presented on the properties of extra fine grained TS - VK3M and VK6V. coarse grained - VK1K, VK6V and VK8V. high cobalt TS with improved ductility - VK20, VK25, and VK30 & designed for stamping tools, and titanium-tungsten TS - T5K12V and tantalum-containing TS - TT7K12 designed for heavy work in cutting steel. 8 literature titles. I. Brokhin.

SUB CODE: MM

ENCL: 00

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WWP(e)/EPA(e)-2/EWT(m)/EPF(c)/EPF(x)-2/EWA(d)/EPR/EPA(w)-2/I/EWP t)/: IJP(c) AT/WH/WW/MJW/ED/HW/JG Pr-4/Ps-4 /00-10/Pu-4/Pab-10/Pad 5/0137/64/000/010/GO41/GO41 ACCESSION NR: AR5004772 Ref. zh. Metallurgiya, Abs. 100276 SOURCE: Smirnov, F. F.; Falikovskiy, V. A.; Barinov, V. P. AUTHOR: TITLE: New brands of hard alloys, their designations and use properties CITED SOURCE: Sb. tr. Vses. n.-1. in-t tverdykh splavov, no. 5, 196h, 5-13 TOPIC TAGS: metal ceramic material, metal mechanical property, metal physical property, tungsten base alloy, cobalt containing alloy, titanium containing alloy, tantalum containing alloy/
GOST 3882-61, GOST 3882-53, alloy VK3M, alloy VK6M/alloy VK4V, alloy VK6V, talloy VK8V, alloy VK20, alloy VK25, alloy VK30, alloy T5K12V, alloy T7K12 TRANSLATION: The fields of application, designations, and the industrial and physicomechanical properties of metal ceramic hard alloys, coming under GOST 3882-61, which went into effect July 1, Card 1/2

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1962, are described. Reasons are given for elimination of a serion of brands of hard alloys from GOST 3882-53 and for introduction of	A control of the state of the s	
new improved brands. Properties are listed for time grained hard	1	
high cobalt hard alloys with increased ductility, brands VK20, bvk and VK30, designed for presses; tungsten-titanium hard alloys T5K and, hard alloy TT7K12 centaining tantalum. I. Brokhin.	izv,	
SUB CODE: MM ENCL: 00		
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20667-66 EWT(d)/EWT(m)/EWP(w)/T/EWP(k)/EWP(k) IJP(a) JD/HW/EM	
CC NR: AP6001477 SOURCE CODE: UR/0226/65/000/012/0069/0072	
ITHOR: Ivensen, V. A.; Gol'dberg, Z. A.; Eyduk, O. N.; Fal'kovskiy, 13	
, A.	
RG: All-Union Scientific Research Institute of Hard Alloys (Vsesoy-	
mauchno-issledovatel skiy institut tverdykh splavov)	- 1
<b>1</b>	
ITLE: Resistance of a hard alloy to failure under impact loads	
DURCE: Poroshkovaya metallurgiya, no. 12, 1965, 69-72	
OPIC TAGS: plastic deformation, mechanical shock resistance, specific	
esistance, compressive strength, ultimate stress, bending stress,	
ata analysis, tungsten containing alloy, failure	
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BSTRACT: The effect of plastic deformation of a hard alloy on its	
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FALIKOVSKII, V. B.

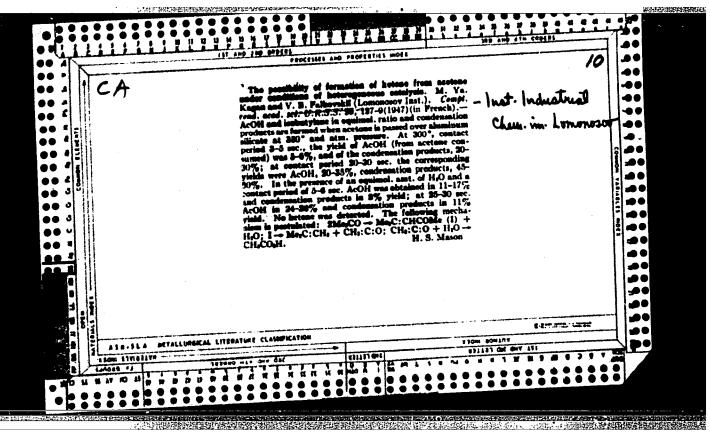
V. B. Fal'kovskii, Free energies of bonds in organic compounds. p. 1639

The difference in the values of the free energy of the bond in the lower, middle and highest homolog is due mainly to the change in the heat of formation at transition from the lower to the higher homolog.

The Lomonosov, Moscow Inst. of Exact Chem. Technology April 24, 1947

SO: Journal of General Chemistry (USSR) 28, (80) No. 9 (1948)

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Calculates free energy of the bonds: C=C, C=C, C=C, C=C, C=C, C=MB <sub>2</sub> , C=MB <sub>2</sub> by two GOOH, C=C, C=C, C=MB <sub>2</sub> , C=MB <sub>2</sub> by two methods: (1) from heats of formation, entropy and specific heats of bonds; (2) directly from and specific heats of bonds; (2) directly from and specific heats of bonds; (2) directly from and specifics of the free energy of compounds or reactions. Results are same in each case.  Inflerences in free energy of contal lower, inflerences in free energy of bond in lower, inflerences in free energy of contal lower, inflerences of formation during transition of bond's heat of formation during transition was valid for decomposition of ketones into the family and the free series, on which there is no thermodynamic data inflerences, on which there is no thermodynamic data because of the family distributed 2h Apr 47.  Submitted 2h Apr 47.	USSR/Chemistry - Bonds, Energy of Chemistry - Organic Compounds Prese Energy of Bonding in Organic Compoun T. B. Fallkovskiy, Moscow Inst Fine Chem T imeni M. V. Lomonosov, 4 pp "Zhur Obshch Khimii" Vol XVIII, No
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PALINGTONIY, V. G.

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"Modification of the Degree of Conversion and Temperature along the Length of a Catalyst Layer," V. B. Fal'kovskiy, Moscow Inst of Fine Chem Technology im M. V. Lomonosov

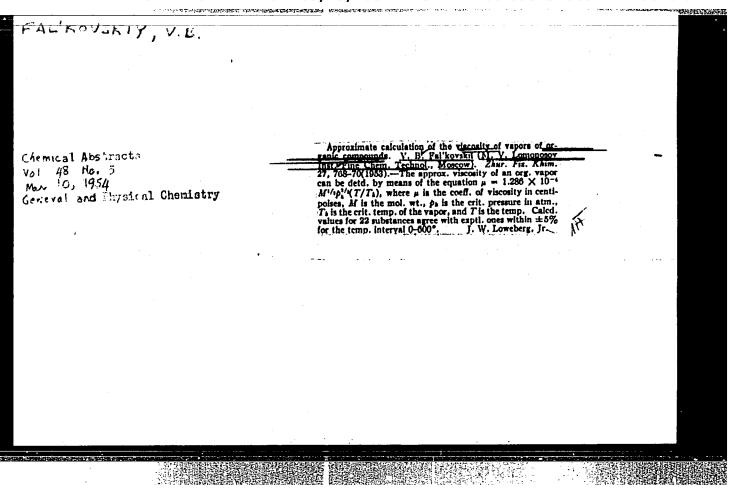
Zhur Fiz Khim, Vol 26, No 7, pp 942-946

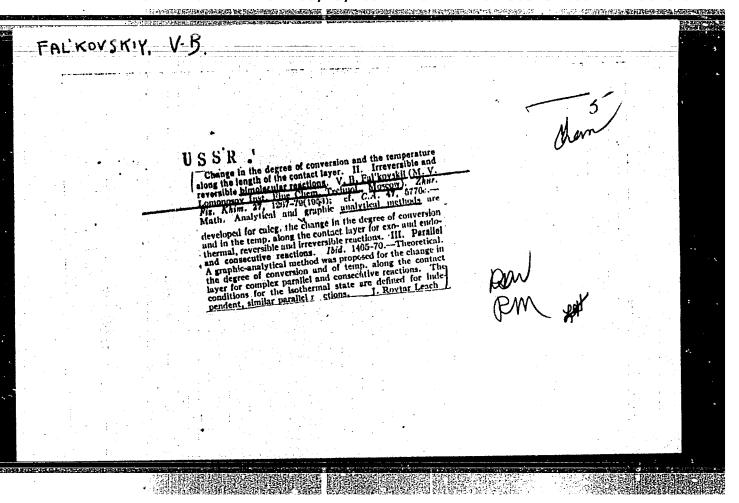
USSR/Chemistry - Catalysts

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Exothermic and endothermic heterogeneous irreversible reactions of the zero and first order, as well as reactions inhibited by the products of a reaction were considered. For these the author formulated approx eqs of the relation showing degree of conversion and the temp along the length of the layer under adiabatic conditions and in the presence of a heat-exchanging surface, for constant or varying-degree temps. He also detd the conditions for maintaining an isothermic state.

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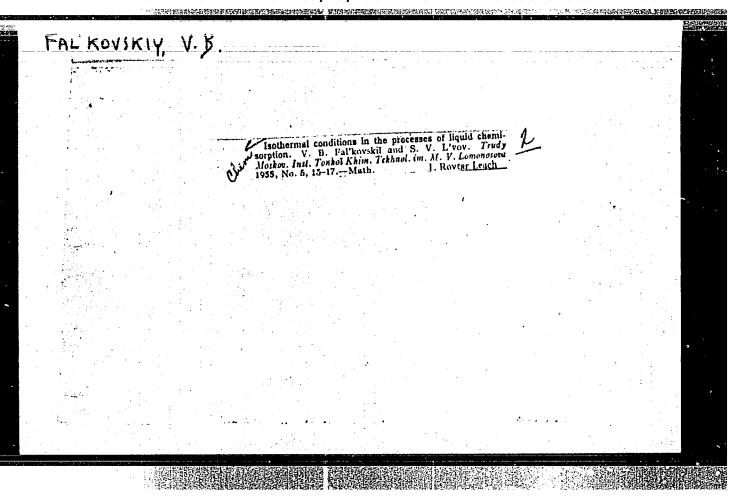


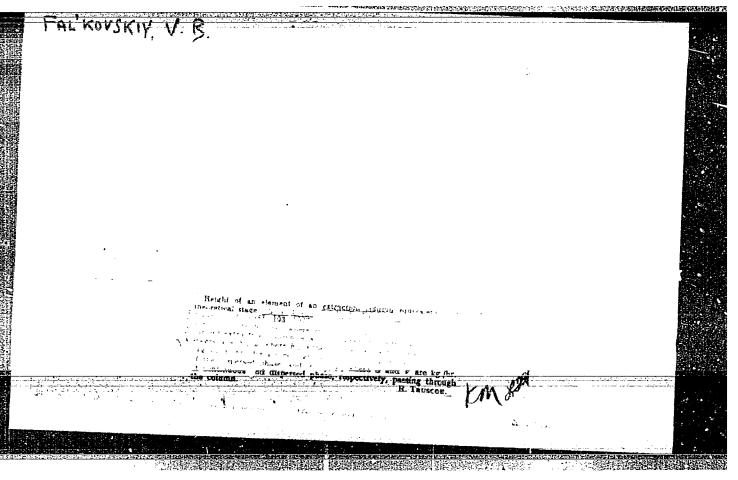
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## FAL'KOVSKIY, V.B.

Change of the degree of conversion and temperature along the contact layer. Part 3. Concurrent and successive reactions. 2mr.fis.khim. 27 no.10:1465-1470 0 \*53. (MIRA 6:12)

1. Institut tonkoy khimicheskoy tekhnologii im. N.V.Lomonosova, Moscow. (Chemical reaction--Conditions and laws)





USSR/Processes and Equipment for Chemical Industries.

K-1

Processes and Apparatus for Chemical Technology

Abs Jour

: Referat Zhur - Khimiya, No 4, 1957, 14180

Author

Fal'kovskiy V.B., Petrova L.I.

Title,

: Dynamics of Neutralization of Esters with Aqueous

Solution of Soda in Non-Packed Columns

Orig Pub

: Zh. prikl. khimii, 1956, 29, No 9, 1453-1456

Abstract

: Investigation of the process of neutralization of admixed acetic acid (I) in esters, by aqueous solution of calcined sods in columns containing no packing, under conditions of a stationary and slowly moving continuous layer of soda solution; initial content of I was yH = 0.014-0.953 g mole/liter. Neutralized were technical n-propyl acetate (II), n-butyl acetate, isobutyl acetate, isoamyl acetate (III), cyclochexyl acetate and isoamyl alcohol. The solutions contained 2, 10 and 20% by weight of soda, height of solution layer in the column was 1100-2000 mm,

Card 1/2

- 18 -

K-1

Fal Kouskiy, U.B.

USSR/Processes and Equipment for Chemical Industries.

Processes and Apparatus for Chemical Technology

Abs Jour : Referat Zhur - Khimiya, No 9, 1957, 33269

Author

: Fal'kovskiy, V.B., Volkov, V.I.

Inst Title

: Dynamics of Absorption of Ketene by Alcohois and Acetic

Acid in Bubbler Columns.

Orig Pub

: Zh. prikl. khimii, 1956, 29, No 11, 1757-1760

Abstract

: A study of the kinetics of the absorption of ketene (I) by alcohols and dilute acetic acid in a flow system under conditions of minimal polymerization of  $\underline{\mathbf{I}}$ . To determine the dependence of the degree of absorption of I on the height H of the layer of scrubbing liquid, the gas velocity w, dimensions of the bubbles, and on other factors, 5 columns were tested (diameter 21-50 mm, H 40 - 360 mm), without packing and filled with glass rings; the ratio of ring diameter to column diameter was varied from 3 to

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USSR/Processes and Equipment for Chemical Industries -Processes and Apparatus for Chemical Technology

K-1

Abs Jour

: Ref Zhur - Khimiya, No 9, 1957, 33269

Gas velocity w, with reference to the total cross section of the column, was varied from 0.002 to 0.04  $m^3/m^2$  second. The absorption process was conducted under isothermal conditions at 3° and 60°. It was found that the rate of lowtemperature, irreversible absorption of  $\underline{\mathbf{I}}$  by alcohols, in a dynamic system, can be defined by an equation of the 1-st order. The results of the experiments show that the degree of extraction of I decreases with increase of w and increases with increasing size of the bubbles or of the rings used as packing; the effect of the temperature on the rate of the process is relatively slight. The experimental data are described by the empirical equation:  $H/S = 102 \text{ M} \cdot d \cdot s0.2/T$ , wherein  $S = ln(y_i/y_f)$ ,  $y_i$  and  $y_f$  -- concentration of  $\underline{I}$  at ingress and egress to and from the scrubbing layer of the liquid; M -- molecular weight of the alcohol, d -- average size of bubbles or

Card 2/3

USSR/Processes and Equipment for Chemical Industries - K-1

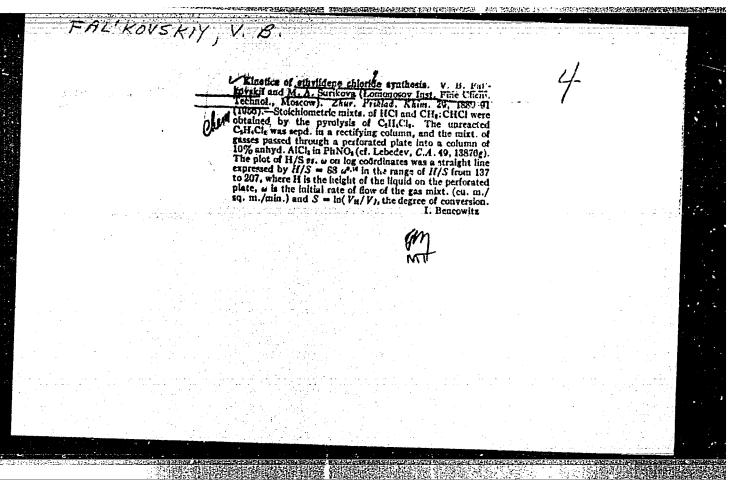
Processes and Apparatus for Chemical Technology

APPROVED FOR RELEASE: 03/13/2001

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Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 33269

of packing rings; T -- absolute temperature. With increasing content of acetates, up to 70-80%, the H/S changes but little, but thereafter the escape of I increases; on increase of concentration of the acetates to 90% the absorption of I decreases sharply and a small amount of the absorbed I undergoes polymerization in the liquid. With increasing concentration of the acetic acid the rate of absorption of I increases.



FALTROVSKII, V.B.; MEL'NIKOV, Yu.I.; VETROVA, A.V.

Dynamics of chemisorption in bubble plate columns. Zhur.prikl.
khim. 30 no,12:1760-1763 D '57. (MIRA 11:1)

1.Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni
M.V. Lomonosova.

(Adsorption) (Plate towers).

FHE KUVSKIT V. W.

USSR/Physical Chemistry - Kinetics, Combustion, Explosions, Topochemistry, Catalysis.

B-9

Abs Jour: Referat. Zhurnal Khimiya, NO 3, 1958, 7259.

Author : V.B. Fal'kovskiy, O.N. Florinskiy.

Inst :

Title : Kinetics of Acetic and Butiric Acids Conversion to Ketones.

Orig Pub: Zh. fiz. khimii, 1957, 31, No 4, 893-895.

Abstract: The catalytic conversion of acetic acid into acetone and butiric

acid into dipropylketone on cerium oxide put on pumice in a flow system at 275 to 375° and under atmospheric pressure is described by a kinetic equation of 1st order. The activation energies of both reaction are 31 kcal per mole, which, in the authors' opinion, indicates that the studied processes proceed

in the kinetic region.

Card : 1/1

-46-

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67039

AUTHORS:

L'vov, S. V., Pal'kovskiy, V. B.,

SOV/153-2-5-24/31

Starkov, A. V.

TITLE:

Synthesis of New Monomers by Catalytic Dehydrogenation of

Polyalkyli Benzenes in the Presence of Steam

PERIODICAL:

Izvestiya vysehikh uchebnykh zavedeniy. Khimiya i khimicheskaya

tekhnologiya, 1959, Vol 2, Nr 5, pp 776 - 778 (USSR)

ABSTRACT:

The present paper deals with the dehydrogenation of polyethyl-and polyisopropyl benzenes to aromatic products which contain in the side chain vinyl-or isopropenyl-groups. This was carried out in a conventional dynamic system on self-regenerating catalysts (volume 30-70 cm<sup>3</sup>). The initial raw materials were mixtures of isomers of the dialkyl- and trialkyl benzenes. Figure 1 shows the dehydrogenation results of the diiso- and triisopropyl benzenes on the catalyst K-1 at 575-650°C. It shows that the yield of unsaturated liquid products increases with the increase in temperature, and with the decrease in the volume velocity of the introduction of reagents. The results also show that the diiso-and triisopropyl benzenes may be dehydrogenated at about equal velocities. Similar results were obtained with the catalyst K-2 at 600-875°C (Fig 2). At a volume velocity of the liquid polyalkyl

Card 1/2

Synthesis of New Monomers by Catalytic Dehydrogenation SOV/153-2-5-24/31 of Polyalkyl-Benzenes in the Presence of Steam

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benzenes of 0.1-0.2 h<sup>-1</sup>, one can obtain, in one single passage, liquid products with a bromine number of 100-115. Among the reaction products and the gaseous by-products, considerable quantities of saturated and unsaturated gaseous products were absent. Thus the side alkyl groups of the polyalkyl benzenes are dehydrogenated while side reactions of splitting-off of side alkyl groups occur to a small extent only. The reaction products tend to thermal polymerization, and are of special interest for the synthesis of ion-exchanging resins and synthetic materials. As a raw material for the synthesis of new monomers, polyalkyl benzene tar (Ref 1) - a waste product of the production of ethyl benzene and isopropyl benzene may be used. No separation is needed in this case because the content of vinyl- and isopropently groups is very high. There are 2 figures and 1 Soviet reference.

ASSOCIATION:

Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M. V. Lomonosova (Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov)

Card 2/2

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**AUTHORS:** 

L'vov, S. V., Fal'kovskiy, V. B.

TITLE:

The Method of Calculation of Bubble-Type Chemical

Reactors

PERIODICAL:

Khimiya i tekhnologiya topliv i masel, 1950. Hr 2,

pp 52-54 (USSR)

ABSTRACT:

Many chemical processes, such as alkylation of bennehe with ethylene and propylene in the presence of aluminum

chloride, polymerization of isobutylene during its bubbling through sulfuric acid, exidst ten of Eutyraldehyde with air, hydrochlorination of impaturated compounds in the presence of aluminum chloride, and acetylation of organic hydroxyl-containing successes with ketene, can be described by the following first-

order equation:

 $\frac{H}{A} = Kw^{0.25}, \tag{1}$ 

Card 1/8

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The Method of Calculation of Bubble-Type Chemical Reactors 77551 \$**0V/**65-60-2-11/15

where H is the height of the bubbling layer, in meters;  $w = \frac{V_0}{\sigma}$  is the nominal initial linear gas relocity in relation to the full column cross section in  $m^3/m^2$ .

relation to the full column cross section in m<sup>3</sup>/m<sup>2</sup>, seconds;  $\sigma$  is the cross section of the column, in m<sup>2</sup>;  $s=\ln\frac{y_H}{y_K}$ , or  $s=\ln\frac{1}{1-\alpha}$ , characterizes the

dimensionless component of the number of reactor units for first-order reactions;  $y_{\rm H}$ ,  $y_{\rm K}$  is the concentration

of the reacting gas at the entrance to and exit from the column, in volume %; a is the degree of conversion

for concentration of gases s =  $\ln \frac{V_H}{V_R}$ , where  $V_H$ ,  $V_R$  is

the amount of the reacting gas at the entrance to and exit from the column, respectively, in m3/seconds; and K is a constant coefficient for a given chemical process and distributing equipment, which depends on diffusion coefficient, viscosity of substances, and other physical

Card 2/8

The Method of Calculation of Bubble-Type Chemical Reactors 77551 \$0V/65-60-2-11/15

values. The calculation of the reactor height is analogical to that of absorption, extraction, and rectification columns. The productive capacity G (in kg/m<sup>3</sup> seconds) of volume unit of the bubble-type reactor can be described by equation

$$G' = \frac{V_{\theta} c_{\Pi} \alpha}{H \varrho} \tag{2}$$

or, according to Eq. (1),

$$G = \frac{wc_{\rm H}}{H}(1 - e^{-s}),$$
 (3)

where  $V_o$  is the amount of the initial gas, in m<sup>3</sup>/ seconds; and  $C_H$  is the initial concentration of the reacting substance, in kg/m<sup>3</sup>. The hydraulic resistance  $\Delta p$  (in kg/m<sup>2</sup>) of the bubble reactor is directly

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The Method of Calculation of Bubble-Type Chemical Reactors

proportional to the height of the bubbling layer and specific gravity of the gas-liquid foaming mixture  $\gamma_*$  (kg/m<sup>3</sup>).

$$\Delta p \approx H \gamma_{\bullet}.$$
 (4)

From Eqs. (1) and (4) it follows that:

$$\Delta p = Ks \gamma_{\bullet} w^{0.25}. \tag{5}$$

Depreciation and repair of the chemical reactor and its accessories in relation to unit of the reacted substance is calculated (in rubles/kg) by Eq. (6).

$$A_1 = \frac{H Q M a}{\beta n V_0 c_R \alpha} , \qquad (6)$$

Card 4/8

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CIA-RDP86-00513R000412410018-0

The Method of Calculation of Bubble-Type Chemical Reactors /7551 807/65-60-2-11/15

where M is the nominal price of the reactor and its accessories in relation to 1 m<sup>3</sup> of its total volume, in ruble/m<sup>3</sup>; C is the yearly depreclation and repair of the reactor and accessories, in fraction of a unit; A is the charge coefficient of the reactor, in fraction of unity; n is the working time, in seconds/year. Combining Eqs. (1) and (6):

 $A_1 = B_1 w^{-v_c 75}, (7)$ 

where  $B_1 = \frac{KsMa}{\beta^{nc_{\mu}}\alpha}$  is a constant coefficient for a given

degree of conversion. The price of the electric power needed to provide a necessary pressure of a liquid and gas to overcome the hydraulic resistance of the chemical reactor can be calculated (in ruble/kg) by Eq. (8):

Card 5/8

The Method of Calculation of Bubble-Type Chemical Reactors

$$A = \frac{r_0}{3600V_0c_0} \left[ \frac{V_0H \gamma_{\bullet}}{102\eta_2} + \frac{G_{\bullet}H}{102\eta_3} \right], \quad (8)$$

where c<sub>3</sub> is the price of the electric power, in rubles/kilowatt-hour;  $G_{\mathbf{x}}$  is the initial amount of the liquid phase, in kg/seconds; and  $\eta_2$  and  $\eta_3$  are the efficiency coefficients of the gas-blowing turbine and of the pump, respectively. Combining Eqs. (5) and (8) we get:

$$A = (B_2 + B_3) w^{0,25}, \qquad (9)$$

where  $B_2$  and  $B_3$  are constant coefficients:

$$\begin{split} B_2 &= \frac{Ksc_5}{3600 \cdot 102c_0 \, \text{arg.}} \ , \\ B_3 &= \frac{Ksc_5}{3600 \cdot 102c_0 \, \text{arg.}} V_9 \ . \end{split}$$

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The Method of Calculation of Bundle-Type Chemical Reactors

The total expenses according to (7) and (9) are:

$$\sum A = B_1 w^{-0.75} + (B_2 + B_3) w^{0.25}. (10)$$

By differentiating (10) and assuming that  $\frac{d\sum A}{dw} = 0$ , the optimal velocity and, consequently, the height of the bubbling layer are found, at which the expenses will be minimum.

$$w_{\text{OPT}} = \frac{3B_1}{B_2 + B_2} \,. \tag{11}$$

In case of the rotation compressors, when such are used, whose capacity is given by Eq. (12),

$$N = \frac{V_0 p_1 \ln \frac{p_2}{p_1}}{100 \eta_2} \tag{12}$$

optimum gas velocity can be found by Eq. (11) in which the coefficient:

Card 7/8

The Method of Calculation of Bubble-Type Chemical Reactors 77551 SOV/65-60-2-11/15

 $B_2 = \frac{Ksc_3\; \mathbf{Y_*}\; p_1}{3600 \cdot 192c_0\; \alpha \mathbf{y_2}\; p_2} \; , \label{eq:B2}$ 

There are 11 references, 9 Soviet, 2 U.S. The 2 U.S. references are: Johnson, D. L., Saito, H., Polejes, I. D., Hougen, O. A., A. I. Chem. Journal, 3, 411, 1957; Houghton G., McLean, A. M., Ritchie, P. D., Chem. Eng. Science, 7, 40, 1957.

ASSOCIATION:

Moscow M. V. Lomonosov Institute of Fine Chemical Technology (Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M. V. Lomonosova)

Card 8/8

。 17. 或是有一种,但是有一种,我们就是一种,我们就是一种,我们就是一种的人,我们就是一种的人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们

FAL'KOVSKIY, V.B.; L'VOV, S.V.

Isothermal conditions of the catalyst surface in adiabatic apparatus with a stationary catalyst bed. Isv.vys.ucheb.sav.; khim.i khim.tekh. 3 mo.6:1111-1112 \*160. (MIRA 14:4)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova, kafedra tekhnologii osnovnogo organicheskogo sintema. (Catalysis)

L'VOV, S.V.; STARKOV, A.V.; FAL'KOVSKIY, V.B.; TIKHONOVA, N.K.

Dehydrochlorination of dichloroethane in packing-free columns. Zhur.prikl.khim. 34 no.8:1894-1895 Ag '61. (MIRA 14:8)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Logonosova. (Ethene) (Ethylene)

KOSTYUK, N.G.; L'VOV, S.V.; FAL'KOVSKIY, V.B.; STARKOV, A.V.; LEVINA, N.M.

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Preparation of anhydrides of higher carboxylic acids by the reaction of transanhydridization. Zhur.prikl.khim. 35 no.3: 698-699 Mr 162. (MIRA 15:4)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.Lomonosova.

(Anhydrides)

L'VOV, S.V.; FAL'KOVSKIY, V.B.; KOSTYUK, N.G.; STARKOV, A.V.; GOLENKOVA, I.B.; KUSKOVA, N.B.; TYURICHEVA, T.A.

Continuous method of preparation of isovaleric acid from isoamyl alcohol by a catalytic reaction. Zhur.prikl.khim. 35 no.3:700-701 Mr 62. (MIRA 15:4)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.Lomonosova. (Isovaleric acid) (Isopentyl alcohol)

FAL'KOVSKIY, V.B.; KALMYKOVA, Ye.M.; TYURICHEVA, T.A.; L'VOV, S.V.

Oxidation of toluene by oxygen in bubble golumns. Izv.vys.ucheb.zav.;-khim.i khim.tekh. 6 no.1:125-127 '63. (MIRA 16:6)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova, kafedra tekhnologii osnovnogo organicheskogo sinteza. (Toluene) (Oxidation)

PAVIENKO, T.G.; FAL'KOVSKIY, V.B.; SERAFIMOV, L.A.; L'VOV, S.V.

Conduction of chemisorption processes in countercurrent spray columns operating continuously (in the system liquid - liquid).

Izv.vys.ucheb.zav.;khim. i khim.tekh. 6 no.2:328-332 '63.

(MIRA 16:9)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova, kafedra tekhnologii osnovnogo organicheskogo sinteza. (Extraction apparatus)

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Preparation of glutaric acid by the oxidation of cyclopentanone with oxygen. Izv.vys.ucheb.sav.;khim. i khim.tekh. 6 no.2: 344-345 '63. (MIRA 16:9)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova, kafedra tekhnologii osnovnogo organicheskogo sintesa. (Glutaric acid) (Cyclopentanone) (Oxygen)

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PAVLENKO, T.G.; FAL'KOVSKIY, V.B.; L'VOV, S.V.

CHARLES AND STANDARD STANDARD

Continuous method for removing unsaturated and sulfur-containing compounds from benzene with sulfuric acid. Khim.i tekh.topl.i masel 8 no.2;3-6 F '63. (MIRA 16:10)

1. Institut tonkoy khimicheskoy tekhnologii im. Lomonosova.

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FAL'KOVSKIY, V.B.; KALMIKOVA, Ye.M.; L'VOV, S.V.

Conversion of adipic acid to cyclopentanone. Zhur.prikl.khim. 36 no.1:230-231 Ja '63. (MIRA 16:5)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.Lomonosova.

(Adipic acid) (Cyclopentanone)

FAL'KOVSKIY, V.B.; NURMUKHAMEDOVA, R.A.; GLAZOVA, T.I.; YELEPINA, L.T.; L'VOV, S.V.

CENTER SECRETARISM CONTROL OF THE PROPERTY OF SECURITIES AND SECURICAL SECURICAL SECURITIES.

Preparation of carboxylic acids by one-stage oxidation of polymethylbenzenes in bubble columns. Izv.vys.ucheb.zav.; khim. i khim. tekh. 7 no. 1:122-126 '64. (MIRA 17:5)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova, kafedra tekhnologii osnovnogo organicheskogo sinteza.

FAL'KOVSKIY, V.B.; BORISOVICH, I.G.; ASTAKHOVA, I.A.; BROVKO, S.P.; FRENKLAKH, Zh.M.; L'VOV, S.V.

Production of monobasic and dibasic aromatic acids. Khim. prom. 41 no.10:735-736 0 '65. (MIRA 18:11)

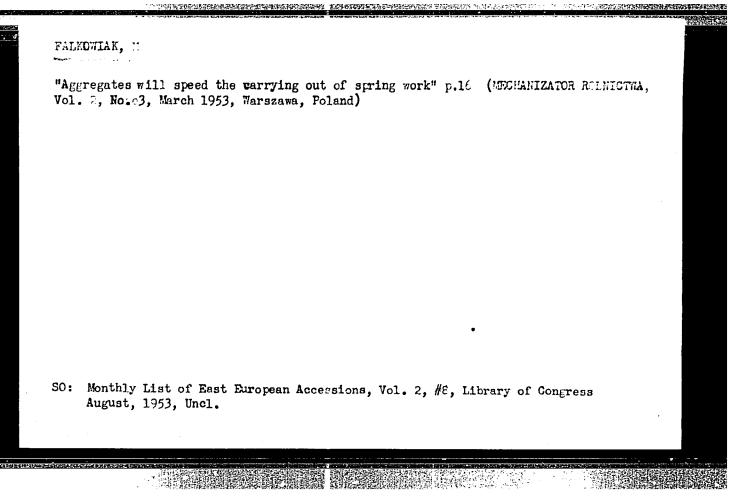
1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova.

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GUNIEV, M.I., inshener; FAL'KOVSKIY, V.I., inshener.

Rapid handling of trains in stations. Zhel.dor.transp. 37 no.1:
45-48 Ja '56.

(Railroads--Stations)



FALKOWSKA, Ernesta; ZALEWSKI, Tadeusz

Certain methods of producing beveled fabrics for electroinsulating tapes. Przegl włokien 17 no.8:269-270 Ag '63.

1. Laboratory of the Felt and Technical Fabric Industry.

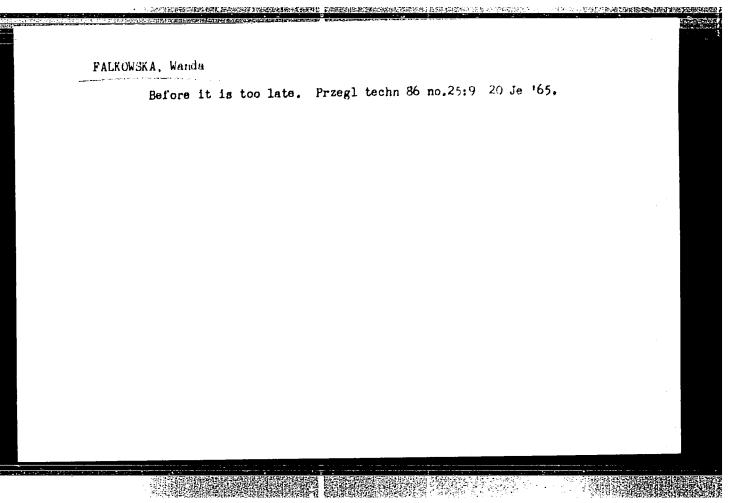
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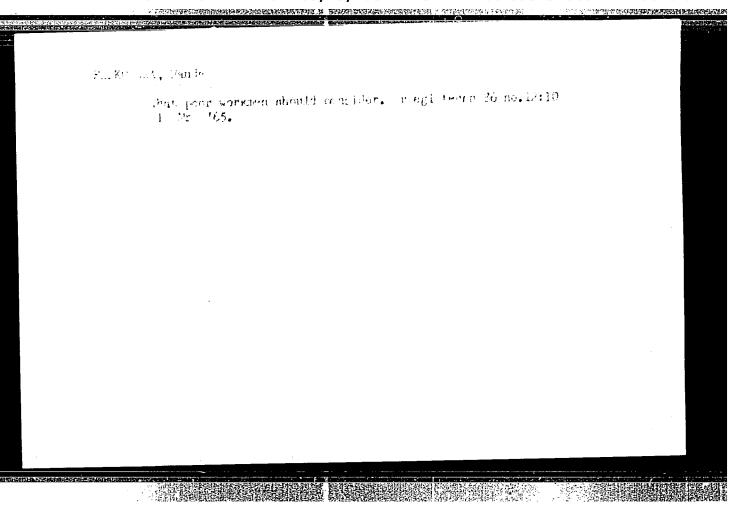
AKERMAN, Karol; FALKOWSKA, Maria; SZPONDER, Wladyslaw

Recovery of germanium from grinding pastes. Przem chem 41 no.12: 723-726 D '62.

1. Instytut Badan Jadrowych, Warszawa, i Oddział Metali Rzadkich, Huta Aluminium, Skawina.

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FALKOUSKA, W

"The Town Retail Stores in Lodg struggle efficiently against lack of merclandise.
p. 373." (ZYOIE COSTODARCZE, Vol. 7, no. 12, Tar. 1953, Warswawa, Foland.)

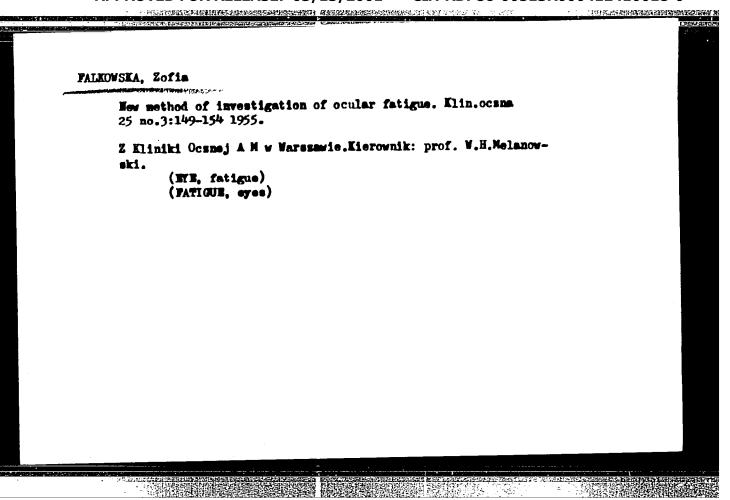
50: East European, L. C. Vol. 2, No. 12, Dec. 1953

FALKOWSKA, Zofia (Varssawa, ul. Ocski 6, Klinika Okulistycsna)

School medical center and its role in disorders of binocular vision. Polski tygod. lek. 9 no.40:1293-1295 4 Oct 54.

(VISION, binocular, disord. in school child.)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410018-0"



PALEOWSKA, Zofia

Anieopia and anisodomination. Klin. ocsna 26 no.1:25-34

Anieopia and anisodomination. Klin. ocsna 26 no.1:25-34

1956.

1. Z Kliniki Ocsnej A. M. w Warssawie. Kierownik: prof.

W. H. Melanowski.

(STRABISMUS

anisopia & anisodomination. (Pol))

Remarks on binocular vision in photogrametry workers. Elin. ocsna 27 no.4:591-602 1957.

1. Z Kliniki Ocsnej A. M. w Warssawie. Eierownik: prof. dr med. W. H. Melanowski.
(VISION

binocular, acuity test in photogrametry workers (Pol))

PALKOWSKA, Z. (Warszawa, ul Ozarowska 59 m 16.)

Pulfrich's photometric examination of acquired color vision anomalies.

Klin. oczna 28 no.3:269-281 1958.

1. Z Kliniki Ocznej A. M. w Warszawie Kierownik: prof. dr med. W. H. Helnnowski.

(COLOR VISION disord., acquired, diag., photometry (Pol))

FALKONSKA, Zofia; SZMIGIELSKI, Michal; ZIELINSKA, Stefania

Electro-oculography and electro-nystagmography. Observations on the method and clinical use. Klin.oczna 31 no.4:373-380 161.

1. Z Kliniki Okulistycznej AM w Warszawie Kierownik: prof. dr med. S. Altenberger Z Kliniki Neurologicznej AM w Warszawie Kierownik: prof. dr med. I. Hausmanowa.

(EYE) (NYSTAGMUS)

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FALKOWSKA, Zofia; SZMIGIELSKI, Michal

On the problem of the electro-oculographic analysis and prysmatic correction in congenital mystagmus. Klin. oczna 32 no.4:327-330 162.

1. Z Kliniki Chorob Oczu AM w Warszawie, Kierownik: prof. dr med.

S. Altenberger.

(NYSTAGMUS)

# FALKOWSKA, Zofia

Localization disorders in sensory asymmetry of the retina. Klin. oczna 33 no.1:7-18 163.

1. Z Kliniki Ocsnej AM w Warszawie Kierownik: prof. dr med.

S. Altenberger.
(VISUAL PERCEPTION) (RETINA)

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FALKOWSKA, Zofia; SOBKOWICZ, Hanna; TUR, Jadwiga

A case of chronic plumbism with changes in the central nervous system and the visual organ. Pol. tyg. lek. 19 no.1:12-15 l Ja'64

1. Z Kliniki Ocznej AM w Warszawie (kierownik: prof.dr.med. W.H.Melenowski); z Kliniki Chorob Nerwowych AM w Warszawie (kierownik: prof.dr.med. I.Hausmanowa-Petrusewicz) i z I Kliniki Chorob Wewnetrznych AM w Warszawie (kierownik: prof.dr. med. A.Bie macki [deceased]) oraz Oddzial Chorob Zawodowych (kierownik: dr.med. M.Weber).

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FALKOWSKA, Zofia

Use of optokinetic nystagmus in the treatment of faulty correspondence. Klin. oczna 34 no.4:441-446 165

1. Z Kliniki Okulisticznej Akademii Medycznej w Warszawie (Kierownik: prof. dr. med. S. Altenberger [deceased]).

# FALKOWSKA, Zofia

Haptic and optic estimation of size. Klin. oczna 35 no.2: 255-261 165.

A TO ELECTRICAL MEDICAL MEDICA

1. Z Kliniki Okulistycznej Akademii Medycznej w Warszawie (Kierownik: doc. dr. med. Z. Falkowska).

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FALKOWSKI, A.

Regulating the temperature of molds for pressing thermosetting powder. p. 376. (PRZ-DMYSL CHEMICZMY, Vol. 10, No. 7, July 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

FALKOWS	17, 4.					
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	Polystyrene 7 i K. Gornight, M., Apr. 30, 1950. E to 80°, and polyty with attring, folk g. Bz <sub>2</sub> O <sub>2</sub> ia 10 kg. tin soln. is introd 100 g. Na <sub>2</sub> SO <sub>4</sub> in after 8 hrs. and k sp. gr. higher the	C(j)  K. Borodiński, A. Rausch, Irzyk, and K. Lewniska. Styrene 190 is added to Hydryl alc.) 0.4 kg. in 201. Hg. owed by 12 l. ol 1% soln. of of styrene. After 2 krs., 16 kuced at 78°, followed during 10 l. HgO. The temp. is tept until granules of polyst an 1 lat of HgO are obtained he 1 roduct is sepd. by filter miformly granulated and h.,000, a bending resistance of 62°.	O 600 warmed O is then added Nekal and 300 O 1. of 6% gela- ng 3-6 hrs. by 1 raised to 80° 1 yrene having u d, Heating is	1.9.9 (NB)		
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# FALKOWSKI, Aleksander; WOYTOWICZ, Jerzy

A case of monilial meningoencephalitis in a 5-month-old infant. Pol. tyg. lek. 17 no.15:594-596 9 Ap 162.

1. Z Oddzialu Dzieciecego i z Laboratorium Centralnego Szpitala Klinicsnego M.S.W.; ordynator: prof. dr Chrapowicki; kierownik laboratorium: dr farm. M. Trzaski.

(MENINGOENCEPHALITIS in inf & child) (MONILIASIS in inf & child)

#### "APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410018-0 THE PROPERTY OF THE PROPERTY O

POLAND / Farm Animals. Honey Bee.

Abs Jour: Ref Zhur-Biol., No 9, 1958m 40546.

: Falkowski, Antoni. : Not given. Author

Inst

: How To Mark Queens. Title

Crig Pub: Pszczelarstwo, 1957, 8, No 6, 177-179.

Abstract: It is necessary to mark all queens in order to avoid a possible mistake, as for instance during

a "quiet change" of queen. The queens are marked immediately after their exit from the cells, before the wedding flight. For marking, the queen is let on the dry honeycomb on which a drop of honey is placed. The queen sits on the honey, and at that moment it is easy to mark her.

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64

FALKOWSKI, E.

"Tasks of the paper industry in the light of resolutions of the 9th Plenary Session of the Central Committee of the Polish United Workers Party." p. 1. (Przeflad Papiermicsy, Vol. 10, no. 1, Jan 54, Lodz)

SO: Monthly List of East European Accessions, Vol 3 No 6 Library of Congress Jun 54 Uncl

FALKOWSKI, H.; KREPEC, T.

New Polish fuel filters. p. 283

MOTORYZACJA Warszawa, Poland Vol. 11, no. 11, Nov. 1959

Monthly List of East European Accessions, (FFAI), LC. Vol. 9, no. 2, Feb. 1959. Uncl.

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